

## **REMARKS**

In response to the Office Action, Claims 1-16 are amended. Claims 1-16 remain in the Application. Reconsideration of the pending claims is respectfully requested in view of the above amendments and the following remarks.

### **I. Objection to the Claims**

Claim 15 is objected to because the variables “z” is not defined in the claim. Claim 15 has been amended to define the variable “z” according to the specification as originally filed. Accordingly, withdrawal of the objection is respectfully requested.

### **II. Claims Rejected Under 35 U.S.C. §102**

Claims 1-14 stand rejected under 35 U.S.C. §102(a) as being anticipated by U.S. Publication No. 2003/0125040 to Walton et al. (“Walton”).

Applicants amend independent Claims 1, 6, 10 and 14 to incorporate all of the limitations of Claim 3. The amendments more specifically point out that the log likelihood ratio parameters calculated by the receiver include a mean and a normalized standard deviation of the SNRs calculated by the receiver. In the rejection of Claim 3, the Examiner cites paragraphs 163 and 167 of Walton for disclosing the use of the mean and the standard deviation of the SNRs calculated by the receiver. However, the cited paragraphs describe the use of a maximum-likelihood sequence estimator (MLSE) at the receiver (paragraph 152). There is no indication in Walton that the receiver sends the mean and the normalized standard deviation of the SNRs to the transmitter.

Walton discloses the transmission of channel state information (CSI) from a receiver to a transmitter as feedback signals (paragraph 11). The CSI may include the SNRs of the transmission channels (paragraph 92). Walton further discloses that an average SNR (or a combined SNR) that averages the SNRs across the transmission channels may be reported back to the transmitter (paragraph 187). However, Walton does not disclose reporting back both the mean and the normalized standard deviation of the SNRs to the transmitter. Thus, Walton does not teach or suggest each of the elements of Claims 1, 6, 10 and 14 as amended.

Claims 2-5, 7-9 and 11-13 depend from Claims 1, 6, 10 and 14, respectively, and incorporate the limitations thereof. Thus, for at least the reasons mentioned above with respect to Claims 1, 6, 10 and 14, Walton does not anticipate these dependent claims. Accordingly, reconsideration and withdrawal of the §102 rejection of Claims 1-14 are respectfully requested.

### **III. Claims Rejected Under 35 U.S.C. §103**

Claims 15 and 16 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Walton.

To establish a *prima facie* case of obviousness, the relied upon references must teach or suggest every limitation of the claim such that the invention as a whole would have been obvious at the time the invention was made to one skilled in the art.

Claims 15 and 16 depend from Claim 14 and incorporate the limitations thereof. Thus, for at least the reasons mentioned above with respect to Claim 14, Walton does not teach or suggest each of the elements of these dependent claims.

Accordingly, reconsideration and withdrawal of the §103 rejection of Claims 15 and 16 are respectfully requested.

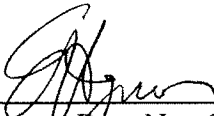
### CONCLUSION

In view of the foregoing, it is believed that all claims are now in condition for allowance and such action is earnestly solicited at the earliest possible date. If there are any additional fees due in connection with the filing of this response, please charge those fees to our Deposit Account No. 02-2666.

Respectfully submitted,

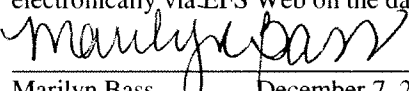
BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

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Eric S. Hyman, Reg. No. 30,139

1279 Oakmead Parkway  
Sunnyvale, CA 94085-4040  
(310) 207-3800

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Marilyn Bass December 7, 2007